

# Jeremy Ey

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## Professional Experience:

### Systems Administrator

Dec. 2011 – Present

Information Technology Services, Tennessee Technological University

Cookeville, TN

Title for same position from Dec 2011- Nov 2012 Systems Programmer II

- Lead systems administrator for campus-wide virtual desktop infrastructure (VDI).
- Install, maintain, and recommend solutions within server, disaster recovery (DR), and desktop virtualization environments utilizing:
  - vSphere Suite (ESXi, vCenter), vRealize Operations Manager, vROPS for Horizon,
  - Horizon View, Unidesk, LoginVSI,
  - Powershell, PowerCLI,
  - Dell servers (rack and blade models),
  - vSAN and iSCSI (Nimble and EqualLogic) storage.
- Develop best practices and design for virtual desktops and hosts, including resource (CPU/RAM/Storage) allocations.
- Deploy and maintain virtual desktop pools (including operating systems and software applications) and hardware endpoints (Teradici and WYSE ThinOS) within the campus virtual desktop environment. Provide additional support and knowledge transfer to College of Engineering staff responsible for virtual desktops used by the college.
- Incorporated NVIDIA vGPU graphics virtualization into the virtual desktop environment.
- Maintenance of Commvault backup and replication solution in both primary and DR data center environments.
- Work with project teams within information technology and across the university in the planning, design, implementation, and administration of information technology solutions. This includes the deployment, upgrade, and migration of software products, operating systems, and hardware based on solution lifecycles.
- Provide guidance and direction to other information technology professionals in the support and use of deployed solutions.

### Adjunct Instructor

Jan. 2012 – Dec. 2016

Department of Computer Science, Tennessee Technological University

Cookeville, TN

- Taught courses in Information Technology (CSIT) – Systems Programming (Fall) & Web Programming (Spring).
- Taught courses in Web Design and Development (Spring 2012).
- Course content: HTML, CSS, client-side & server-side JavaScript, Python, Linux & Windows system administration.
- Both within and outside the classroom continued to assist students learning and using additional technologies.
- Assisted in maintaining CSIT Curriculum based on ABET, ACM, other standards, and constituent feedback.

**Instructor**

Aug. 2007 – Dec. 2011

Department of Computer Science, Tennessee Technological University

Cookeville, TN

- Taught courses in web design and introductory computing.
- Courses included coverage of programming with client-side JavaScript, PHP, and Python.
- In addition to technologies formally covered in class also assisted students with web related projects using a variety of technologies. This included both student selected technologies in courses personally taught as well as referred students from other courses.
- Assisted in authoring Spring 2011 CSIT Curriculum Revisions.
- Assisted in administration of department computing resources, including advising members of the department's student administration team.
- Worked with other faculty members to revise website content and improve department social media presence.
- Continued involvement with Volunteer eHealth Initiative research project.

**Graduate Research Assistant**

Jan. 2006 – July 2007

Department of Computer Science, Tennessee Technological University

Cookeville, TN

- Researched record linkage as part of the Volunteer eHealth Initiative.
- Evaluated record linkage algorithms for use in linked medial records.
- Developed several tools to assist in the review of records and record linkage results including:
  - a deterministic record linkage toolkit (dGrail) that made use of distributed job scheduling,
  - a Regional Health Information Organization (RHIO) simulator (RHIM),
  - a GUI, using PyObjC bridge and Cocoa, for review of linkage results.
- Majority of development work was performed in Python on OS X
- This work also included review of existing code, written in either Python or Perl.

**Student Administrator**

Aug. 2003 – Dec. 2005

Department of Computer Science, Tennessee Technological University

Cookeville, TN

- Served as senior member of department system administration team.
- Maintained the Computer Science Department website.
- Administered Apache, PHP, and MySQL installations for Mac OS X servers.
- Assisted in administration of department's labs and servers.
- Developed a PHP & MySQL-based web application for student work time tracking.
- Led the migration of the department website to Plone, a Zope and Python based CMS.

**Education:****M.S. Computer Science** - Tennessee Technological University

August 2007

Thesis Title: A Knowledge Discovery and Modeling Framework for Population-sensitive Evaluation of Record Linkage Algorithms

Advisor: Dr. Douglas A. Talbert

**B.S. Computer Science** - Tennessee Technological University

December 2005

Concentration in Software and Scientific Applications

26 hours in Library and Information Science - University of Illinois, Urbana-Champaign  
towards an MLIS with a specialization in data curation

2009-2011

## **Certifications and Designations:**

VMware Certified Implementation Expert – Design and Mobility (VCIX6-DTM)

VMware Certified Advanced Professional

Desktop and Mobility Deploy (VCAP6-DTM Deploy)

Desktop and Mobility Design (VCAP6-DTM Design)

VMware Certified Professional

Desktop and Mobility (VCP7-DTM, VCP6-DTM, VCP5-DT)

Data Center Virtualization (VCP6-DCV, VCP5-DCV)

## **Recognitions:**

VMware vExpert (2018, 2019)

VMware EUC Champion (2018, 2019)

WISH Mentoring Program at CHI2010 (2010)

Selected to participate in the Workshop on Interactive Systems in Healthcare (WISH) mentoring program for students and junior researchers at CHI2010.

Best Poster Award Graduate Student Computer Science (2007)

Research Day Tennessee Technological University

*Poster Title: Distributed System for Record Linkage Gold Standard Generation*

Eagle Scout, Boy Scouts of America (2000)

## **Service:**

VMware User Group

VMUG Program Success & Innovation Committee Member (2019)

Merit Badge University, Tennessee Technological University

Merit Badge Counselor - *Digital Technology (15, 17-19), Electricity (16), Computers (09-14)*

ACM ICPC Regional Programming Contest, Tennessee Technological University Site

Site Assistant or Technology Staff (2003-2010, 2012-2017)

Women in Cybersecurity Conference (WiCyS)

Social Media Committee Member (16), Logistics Committee Member (15), Volunteer (14)

Tennessee Celebration of Women in Computing (TNWIC)

Sponsor and Volunteer (2011)

IEEE SoutheastCon

Judge and Site Assistant, Student Programming Contest (2011)

ACM Student Chapter, Tennessee Tech University

Chapter Chair, (2002-2003 Academic Year)

## **Memberships:**

VMware User Group (VMUG)

Association for Computing Machinery (ACM)

ACM Special Interest Groups on:

Computer-Human Interaction (SIGCHI)

Information Retrieval (SIGIR)